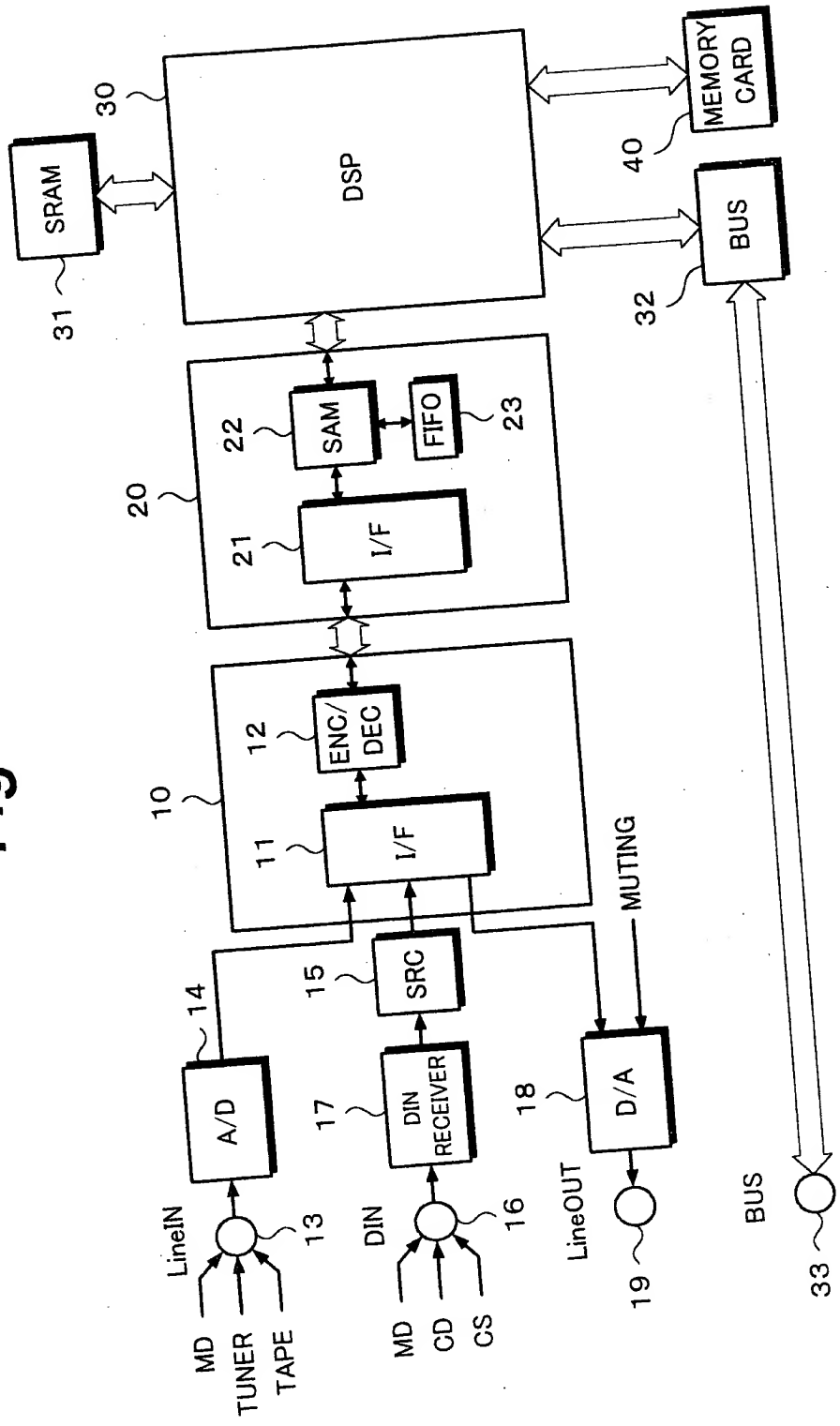

SRAM
31
30
DSP
MEMORY CARD
40
BUS
32
20
22
SAM
FIFO
23
21
I/F
10
12
ENC/DEC
11
I/F
MUTING
15
SRC
14
A/D
17
DIN RECEIVER
18
D/A
LineIN
13
DIN
16
LineOUT
19
BUS
33
MD
TUNER
TAPE
MD
CD
CS

Fig. 1

Fig. 2

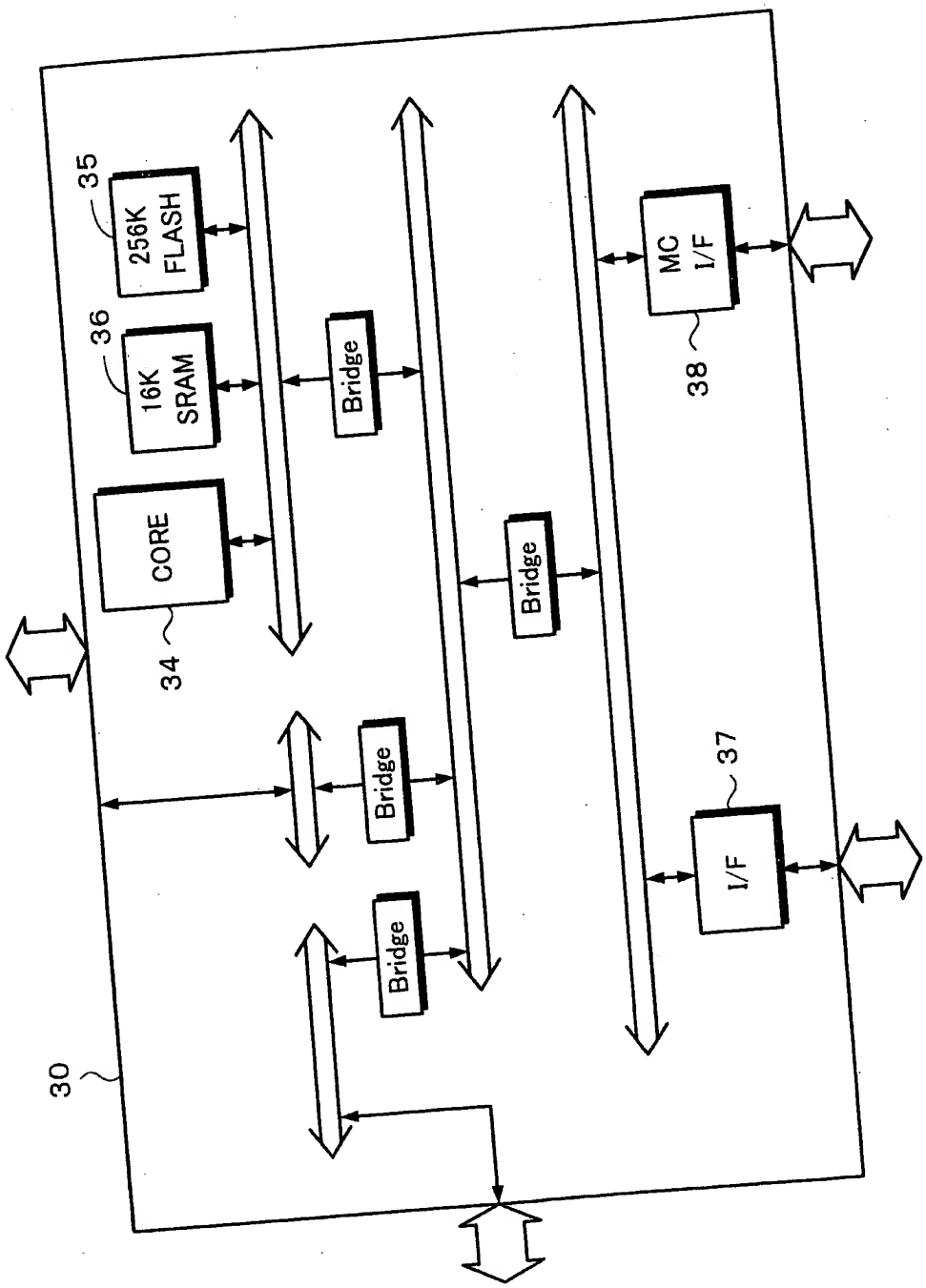
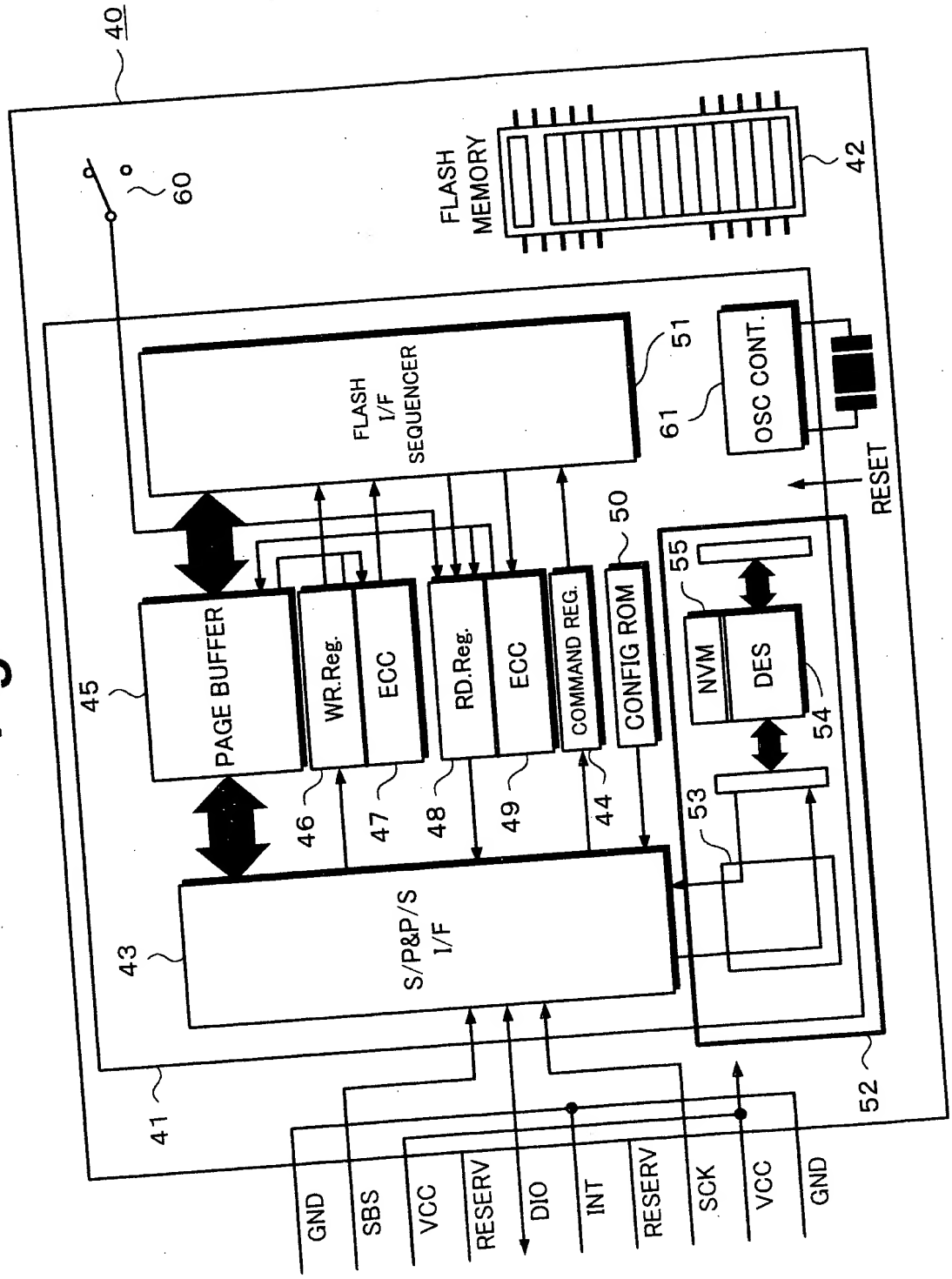
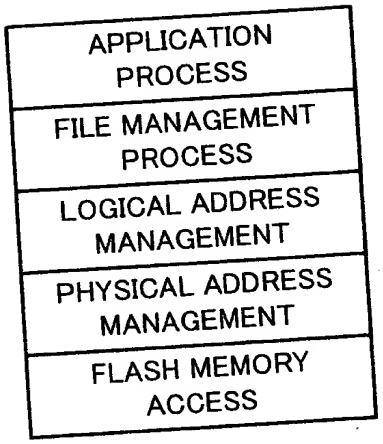

30
34
CORE
35
256K FLASH
36
16K SRAM
Bridge
Bridge
Bridge
Bridge
38
MC I/F
37
I/F

Fig. 3

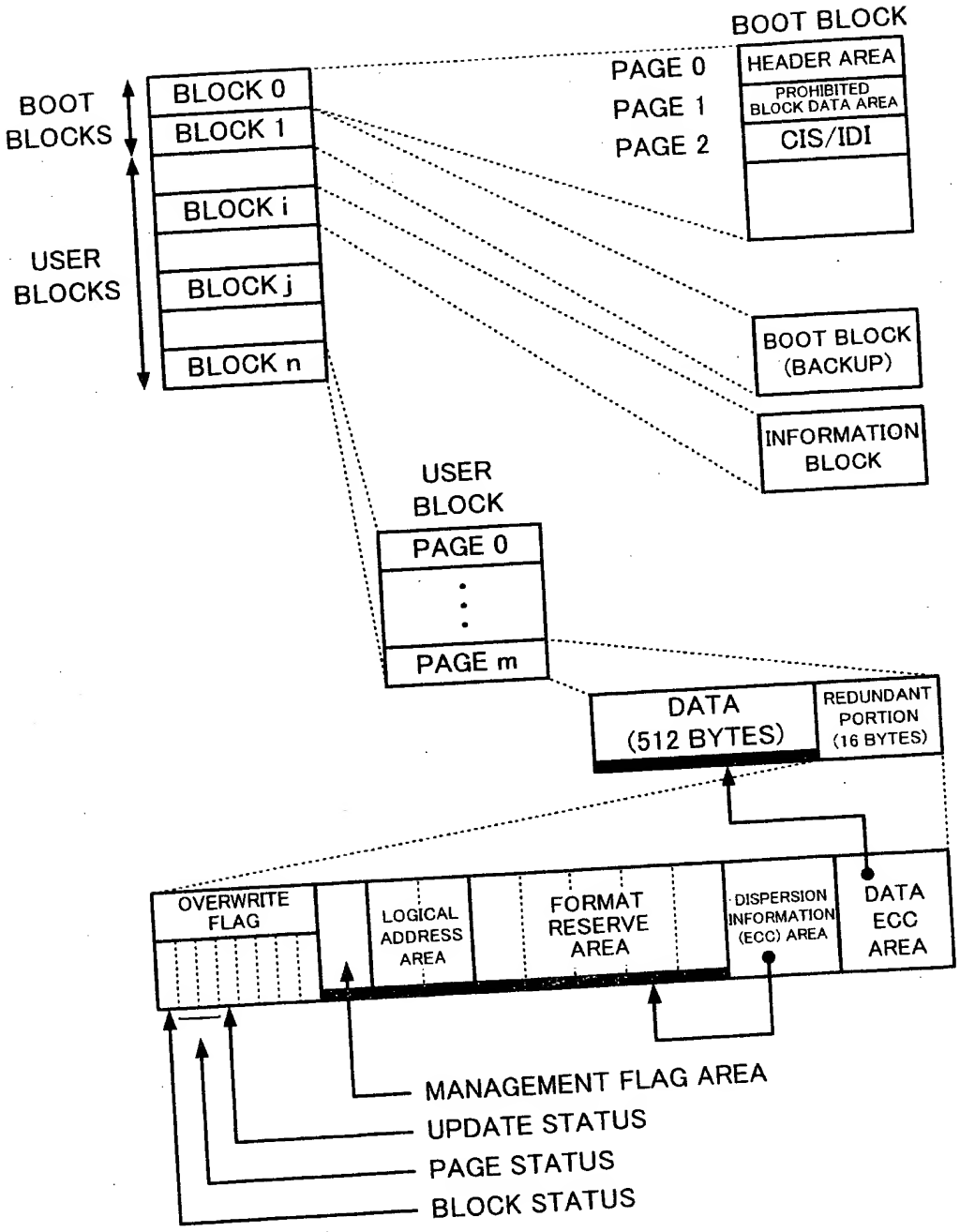

40
60
FLASH MEMORY
42
FLASH I/F SEQUENCER
51
61
OSC CONT.
RESET
50
55
45
PAGE BUFFER
WR.Reg.
ECC
RD.Reg.
ECC
COMMAND REG.
CONFIG ROM
NVM
DES
54
46
47
48
49
44
53
43
S/P&P/S I/F
41
52
GND
SBS
VCC
RESERV
DIO
INT
RESERV
SCK
VCC
GND

# Fig. 4

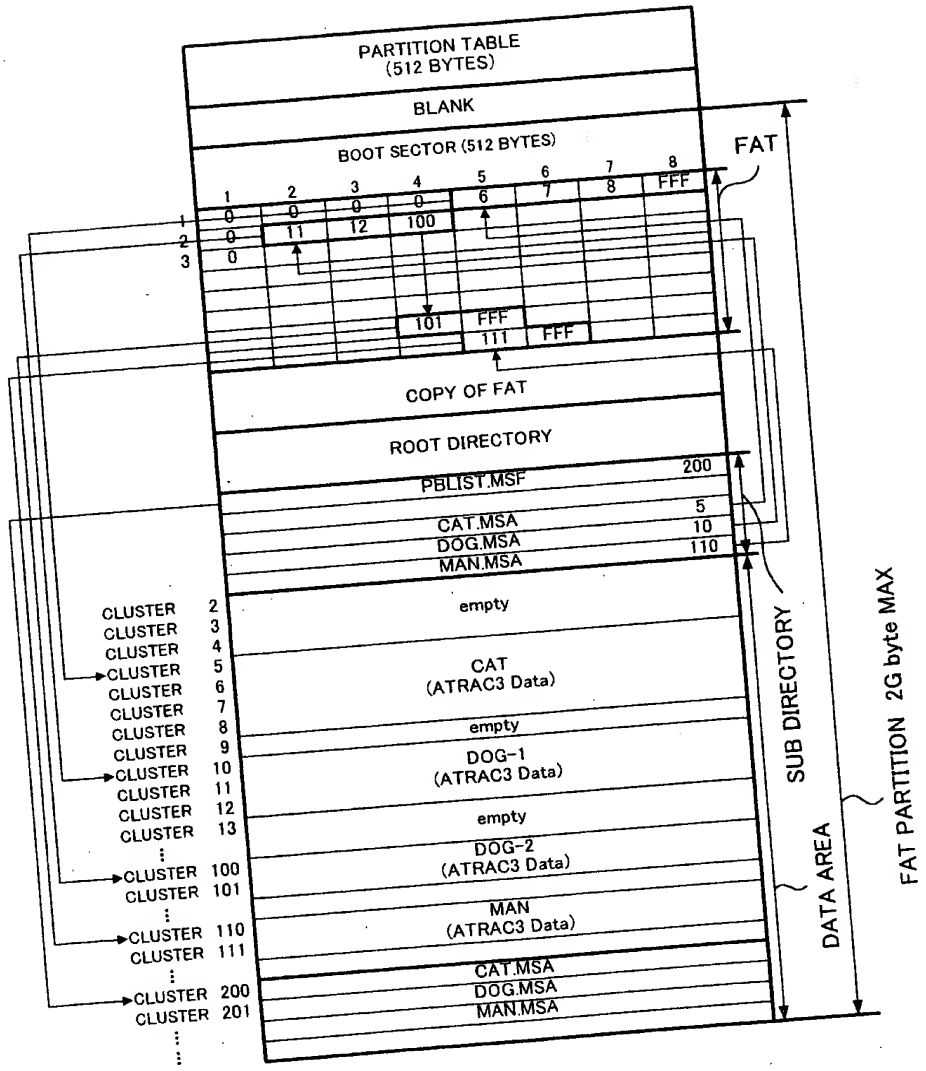



FILE SYSTEM PROCESS HIERARCHY

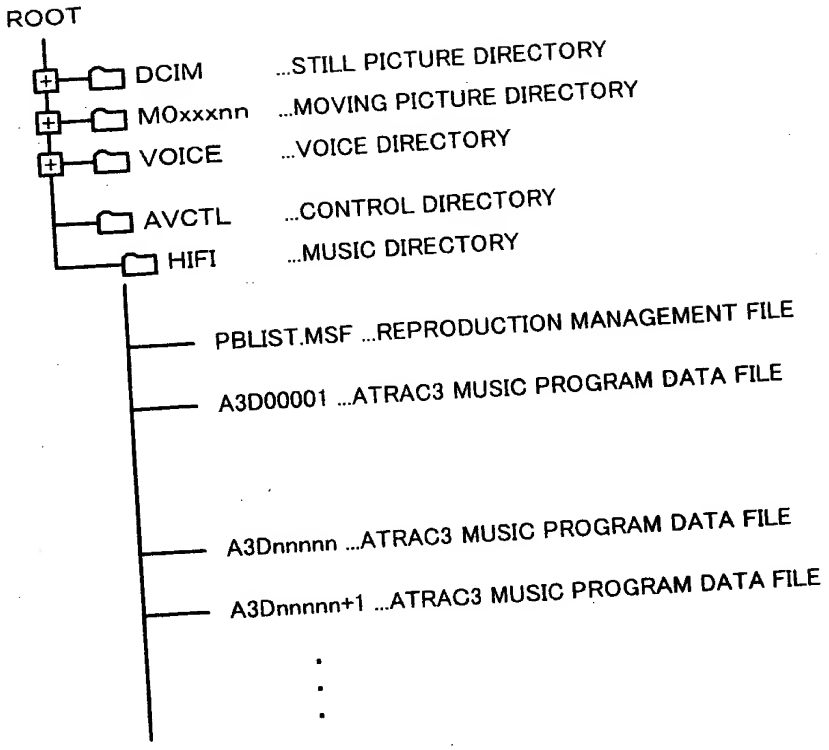
# Fig. 5


BOOT BLOCK
PAGE 0
PAGE 1
PAGE 2
HEADER AREA
PROHIBITED BLOCK DATA AREA
CIS/IDI
BOOT BLOCKS
USER BLOCKS
BLOCK 0
BLOCK 1
BLOCK i
BLOCK j
BLOCK n
BOOT BLOCK (BACKUP)
INFORMATION BLOCK
USER BLOCK
PAGE 0
PAGE m
DATA (512 BYTES)
REDUNDANT PORTION (16 BYTES)
OVERWRITE FLAG
LOGICAL ADDRESS AREA
FORMAT RESERVE AREA
DISPERSION INFORMATION (ECC) AREA
DATA ECC AREA
MANAGEMENT FLAG AREA
UPDATE STATUS
PAGE STATUS
BLOCK STATUS

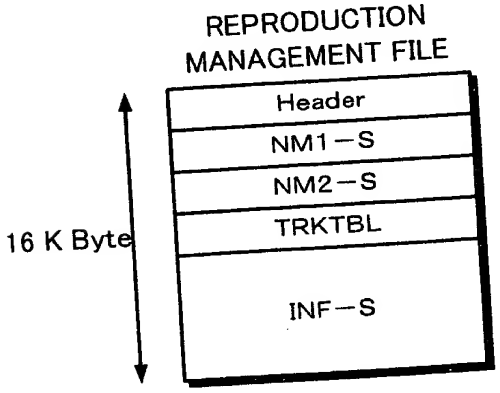
# Fig. 6


PARTITION TABLE
(512 BYTES)
BLANK
BOOT SECTOR (512 BYTES)
FAT
COPY OF FAT
ROOT DIRECTORY
PBLIST.MSF 200
CAT.MSA 5
DOG.MSA 10
MAN.MSA 110
empty
CAT
(ATRAC3 Data)
empty
DOG-1
(ATRAC3 Data)
empty
DOG-2
(ATRAC3 Data)
MAN
(ATRAC3 Data)
CAT.MSA
DOG.MSA
MAN.MSA
SUB DIRECTORY
DATA AREA
FAT PARTITION 2G byte MAX
CLUSTER 2
CLUSTER 3
CLUSTER 4
CLUSTER 5
CLUSTER 6
CLUSTER 7
CLUSTER 8
CLUSTER 9
CLUSTER 10
CLUSTER 11
CLUSTER 12
CLUSTER 13
CLUSTER 100
CLUSTER 101
CLUSTER 110
CLUSTER 111
CLUSTER 200
CLUSTER 201

# Fig. 7


ROOT
DCIM ...STILL PICTURE DIRECTORY
M0xxxnn ...MOVING PICTURE DIRECTORY
VOICE ...VOICE DIRECTORY
AVCTL ...CONTROL DIRECTORY
HIFI ...MUSIC DIRECTORY
PBLIST.MSF ...REPRODUCTION MANAGEMENT FILE
A3D00001 ...ATRAC3 MUSIC PROGRAM DATA FILE
A3Dnnnnn ...ATRAC3 MUSIC PROGRAM DATA FILE
A3Dnnnnn+1 ...ATRAC3 MUSIC PROGRAM DATA FILE

# Fig. 8


REPRODUCTION MANAGEMENT FILE
Header
NM1−S
NM2−S
TRKTBL
INF−S
16 K Byte

# Fig. 9

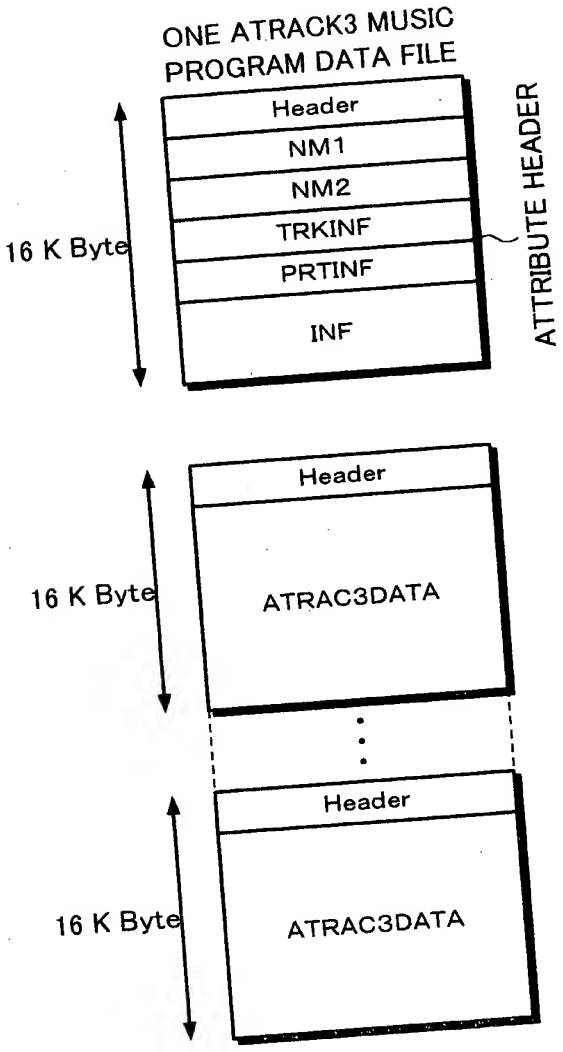

ONE ATRACK3 MUSIC
PROGRAM DATA FILE
Header
NM1
NM2
TRKINF
PRTINF
INF
ATTRIBUTE HEADER
16 K Byte
Header
ATRAC3DATA
16 K Byte
Header
ATRAC3DATA
16 K Byte

Fig. 10A

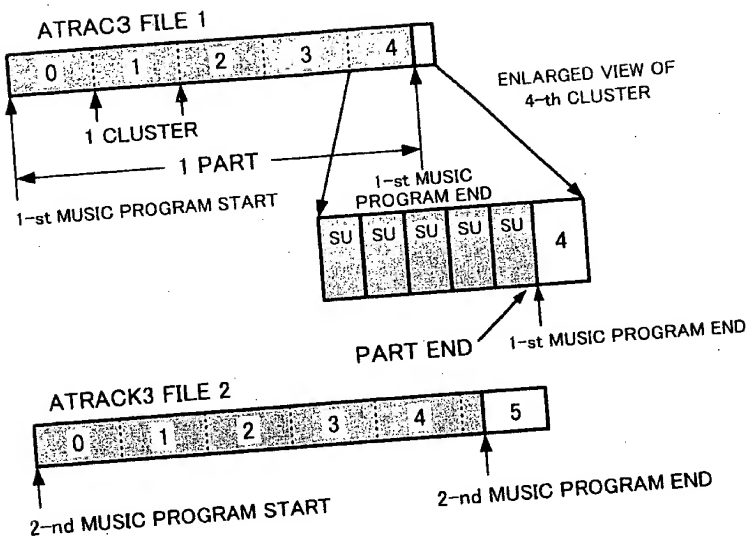



Fig. 10B

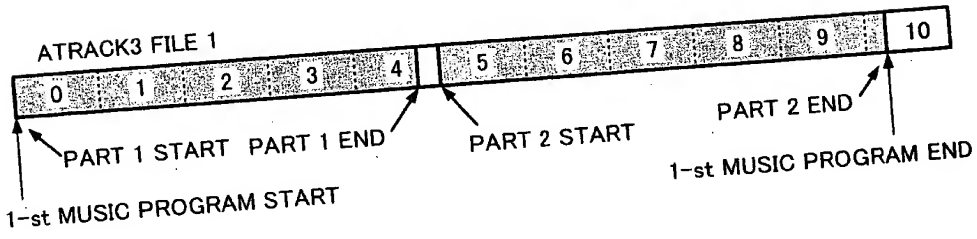
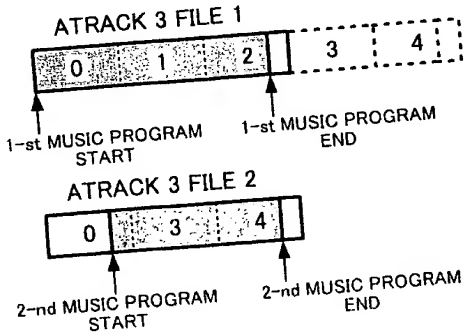



Fig. 10C



# Fig. 11

REPRODUCTION MANAGEMENT FILE (PBLIST)

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0X0000 | BLKID−TL0 | | | | Reserved | | MCode | | REVISION | | | | Reserved | | | |
| 0X0010 | SN1C+L | | SN2C+L | | SINFSIZE | | T−TRK | | VerNo | | Reserved | | | | | |
| 0X0020 | NM1−S(256) | | | | | | | | | | | | | | | |
| 0X0120 | NM2−S(512) | | | | | | | | | | | | | | | |
| 0X0320 | Reserved | | | | | | | | | | | | CONTENTSKEY | | | |
| 0X0330 | Reserved | | | | | | | | | | | | MAC | | | |
| | Reserved | | | | | | | | | | | | | | S−YMDhms | |
| TRKTBL 0X0350 | TRK−001 | | TRK−002 | | TRK−003 | | TRK−004 | | TRK−005 | | TRK−006 | | TRK−007 | | TRK−008 | |
| | TRK−009 | | TRK−010 | | TRK−011 | | TRK−012 | | TRK−013 | | TRK−014 | | TRK−015 | | TRK−016 | |
| | | | | | | | | | | | | | | | | |
| 0X0660 | TRK−393 | | TRK−394 | | TRK−395 | | TRK−396 | | TRK−397 | | TRK−398 | | TRK−399 | | TRK−400 | |
| 0X0647 | INF−S(14720) | | | | | | | | | | | | | | | |
| 0X3FF0 | BLKID−TL0 | | | | Reserved | | MCode | | REVISION | | | | Reserved | | | |

Fig. 12A

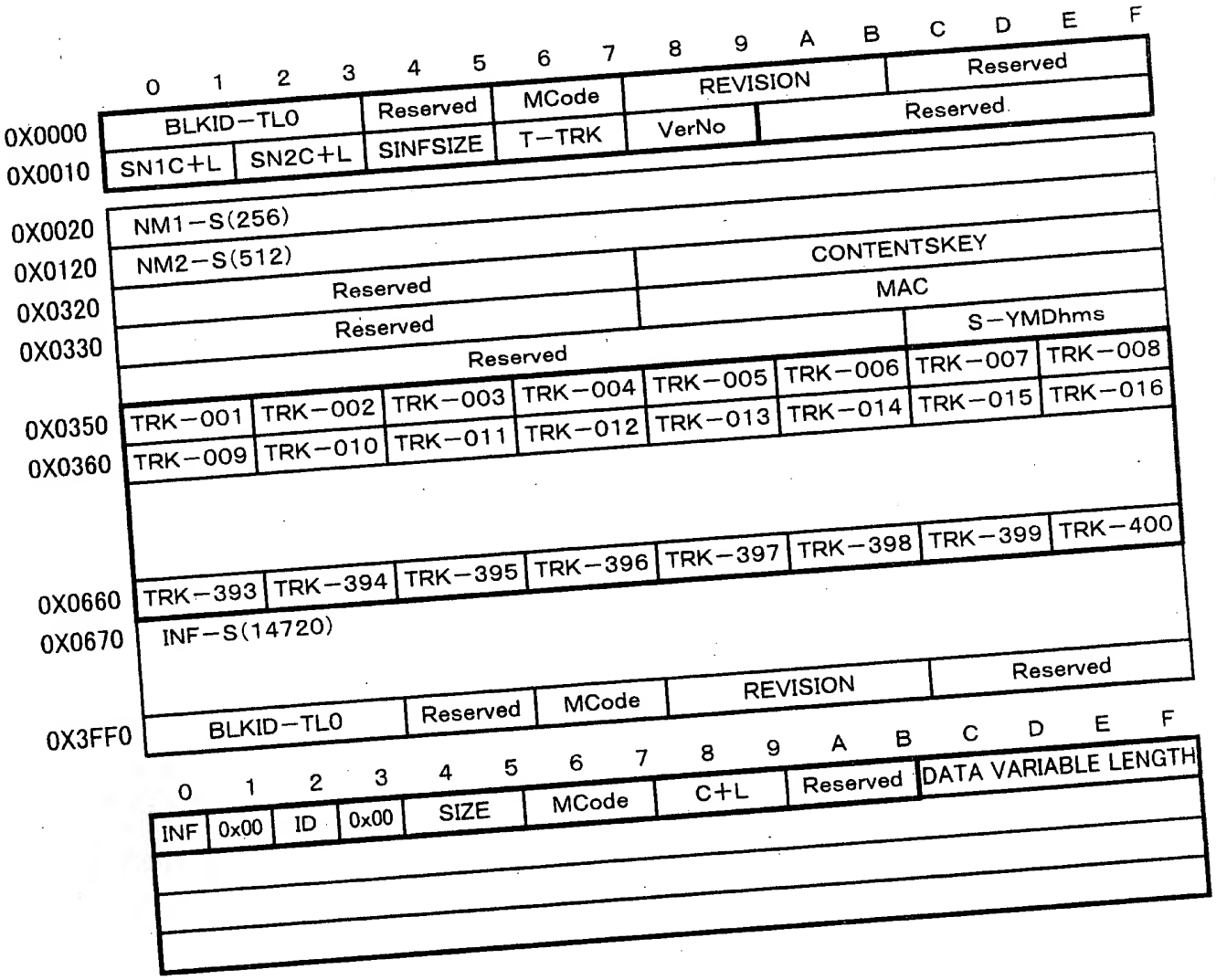



Fig. 12B




Fig. 12C

# Fig. 13

| ID | MUSIC INFORMATION (CHARACTERS) | | ID | URL INFORMATION (WEB INFORMATION) | |
|---|---|---|---|---|---|
| 0 | RESERVED | | 32 | RESERVED | |
| 1 | ALBUM | VARIABLE | 33 | ALBUM | VARIABLE |
| 2 | SUBTITLE | VARIABLE | 34 | SUB TITLE | VARIABLE |
| 3 | ARTIST | VARIABLE | 35 | ARTIST | VARIABLE |
| 4 | CONDUCTOR | VARIABLE | 36 | CONDUCTOR | VARIABLE |
| 5 | ORCHESTRA | VARIABLE | 37 | ORCHESTRA | VARIABLE |
| 6 | PRODUCER | VARIABLE | 38 | PRODUCER | VARIABLE |
| 7 | PUBLISHER | VARIABLE | 39 | PUBLISHER | VARIABLE |
| 8 | COMPOSER | VARIABLE | 40 | COMPOSER | VARIABLE |
| 9 | SONG WRITER | VARIABLE | 41 | SONG WRITER | VARIABLE |
| 10 | ARRANGER | VARIABLE | 42 | ARRANGER | VARIABLE |
| 11 | SPONSOR | VARIABLE | 43 | SPONSOR | VARIABLE |
| 12 | CM | VARIABLE | 44 | CM | VARIABLE |
| 13 | GUIDE | VARIABLE | 45 | GUIDE | VARIABLE |
| 14 | ORIGINAL MUSIC PROGRAM TITLE | VARIABLE | 46 | ORIGINAL MUSIC PROGRAM TITLE | VARIABLE |
| 15 | ORIGINAL ALBUM TITLE | VARIABLE | 47 | ORIGINAL ALBUM TITLE | VARIABLE |
| 16 | ORIGINAL MUSIC PROGRAM COMPOSER | VARIABLE | 48 | ORIGINAL MUSIC PROGRAM COMPOSER | VARIABLE |
| 17 | ORIGINAL MUSIC PROGRAM SONG WRITER | VARIABLE | 49 | ORIGINAL MUSIC PROGRAM SONG WRITER | VARIABLE |
| 18 | ORIGINAL MUSIC PROGRAM ARRANGER | VARIABLE | 50 | ORIGINAL MUSIC PROGRAM ARRANGER | VARIABLE |
| 19 | ORIGINAL MUSIC PROGRAM PERFORMER | VARIABLE | 51 | ORIGINAL MUSIC PROGRAM PERFORMER | VARIABLE |
| 20 | MESSAGE | VARIABLE | 52 | | |
| 21 | COMMENT | VARIABLE | 53 | | |
| 22 | WARNING | VARIABLE | 54 | | |
| 23 | GENRE | VARIABLE | 55 | | |
| 24 | | | 56 | | |
| 25 | | | 57 | | |
| 26 | | | 58 | | |
| 27 | | | 59 | | |
| 28 | | | 60 | | |
| 29 | | | 61 | | |
| 30 | | | 62 | | |
| 31 | | | 63 | | |

# Fig. 14

| ID | PATH/OTHERS | |
|---|---|---|
| 64 | RESERVED | |
| 65 | PATH TO VIDEO DATA | VARIABLE |
| 66 | PATH TO SONG DATA | VARIABLE |
| 67 | PATH TO MIDI DATA | VARIABLE |
| 68 | PATH TO GUIDE DATA | VARIABLE |
| 69 | PATH TO COMMENT DATA | VARIABLE |
| 70 | PATH TO CM DATA | VARIABLE |
| 71 | PATH TO FAX DATA | VARIABLE |
| 72 | PATH TO COMMUNICATION DATA 1 | VARIABLE |
| 73 | PATH TO COMMUNICATION DATA 2 | VARIABLE |
| 74 | PATH TO CONTROL DATA | VARIABLE |
| 75 | | |
| 76 | | |
| 77 | | |
| 78 | | |
| 79 | | |
| 80 | | |
| 81 | | |
| 82 | | |
| 83 | | |
| 84 | | |
| 85 | | |
| 86 | | |
| 87 | | |
| 88 | | |
| 89 | | |
| 90 | | |
| 91 | | |
| 92 | | |
| 93 | | |
| 94 | | |
| 95 | | |

| ID | CONTROL/NUMERIC DATA INFORMATION | |
|---|---|---|
| 96 | RESERVED | |
| 97 | ISRC | 8 |
| 98 | TOC_ID | 8 |
| 99 | UPC/JAN | 7 |
| 100 | RECORDED DATE (YMDhms) | 4 |
| 101 | RELEASED DATE | 4 |
| 102 | ORIGINAL MUSIC PROGRAM RELEASED DATE (YMDhms) | 4 |
| 103 | RECORDED DATE (YMDhms) | 4 |
| 104 | SUB TRACK | 1 |
| 105 | AVERAGE VOLUME LEVEL | 4 |
| 106 | RESUME | 4 |
| 107 | REPRODUCTION LOG (YMDhms) | 1 |
| 108 | NUMBER OF REPRODUCTION TIMES (FOR LEARNING) | 16 |
| 109 | PASSWORD 1 | 16 |
| 110 | APPLevel | 1 |
| 111 | GENRE CODE | |
| 112 | MIDI DATA | |
| 113 | THUMB NAIL PHOTOGRAPH DATA | |
| 114 | TEXT MULTIPLEXED BROADCAST DATA | |
| 115 | NUMBER OF TOTAL MUSIC PROGRAMS | |
| 116 | SET NUMBER | |
| 117 | NUMBER OF TOTAL SETS | |
| 118 | REC POSITION INFORMATION – GPS | VARIABLE |
| 119 | PB POSITION INFORMATION – GPS | VARIABLE |
| 120 | REC POSITION INFORMATION – PHS | VARIABLE |
| 121 | PB POSITION INFORMATION – PHS | VARIABLE |
| 122 | CONNECTION DESTINATION TELEPHONE NUMBER 1 | VARIABLE |
| 123 | CONNECTION DESTINATION TELEPHONE NUMBER 2 | VARIABLE |
| 124 | INPUT VALUE | VARIABLE |
| 125 | OUTPUT VALUE | VARIABLE |
| 126 | PB CONTROL DATA | VARIABLE |
| 127 | REC CONTROL DATA | VARIABLE |

# Fig. 15

| ID | SYNCHRONOUS REPRODUCTION INFORMATION | |
|---|---|---|
| 128 | RESERVED | |
| 129 | SYNCHRONOUS REPRODUCTION INFORMATION 1 | VARIABLE |
| 130 | SYNCHRONOUS REPRODUCTION INFORMATION 2 | VARIABLE |
| 131 | SYNCHRONOUS REPRODUCTION INFORMATION 3 | VARIABLE |
| 132 | SYNCHRONOUS REPRODUCTION INFORMATION 4 | VARIABLE |
| 133 | SYNCHRONOUS REPRODUCTION INFORMATION 5 | VARIABLE |
| 134 | SYNCHRONOUS REPRODUCTION INFORMATION 6 | VARIABLE |
| 135 | | |
| 136 | | |
| 137 | | |
| 138 | EMD INFORMATION 1 | VARIABLE |
| 139 | EMD INFORMATION 2 | VARIABLE |
| 140 | | |
| 141 | | |
| 142 | | |
| 143 | | |
| 144 | | |
| 145 | | |
| 146 | | |
| 147 | | |
| 148 | | |
| 149 | | |
| 150 | | |
| 151 | | |
| 152 | | |
| 153 | | |
| 154 | | |
| 155 | | |
| 156 | | |
| 157 | | |
| 158 | | |
| 159 | | |

Fig. 16A

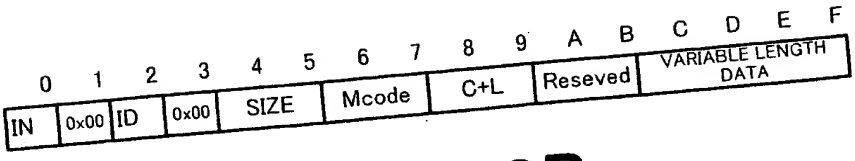



Fig. 16B

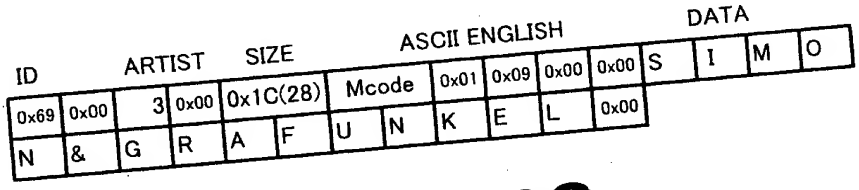



Fig. 16C

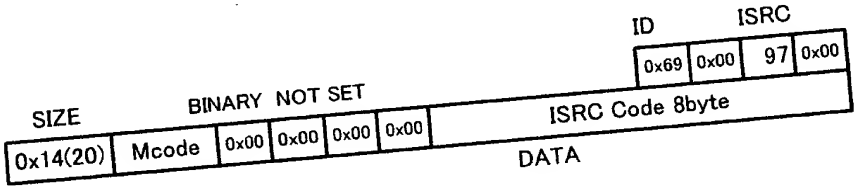



Fig. 16D

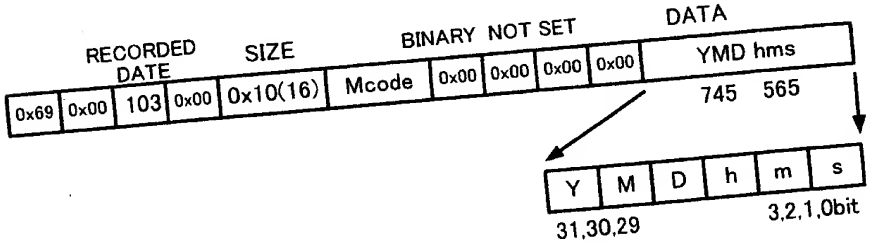
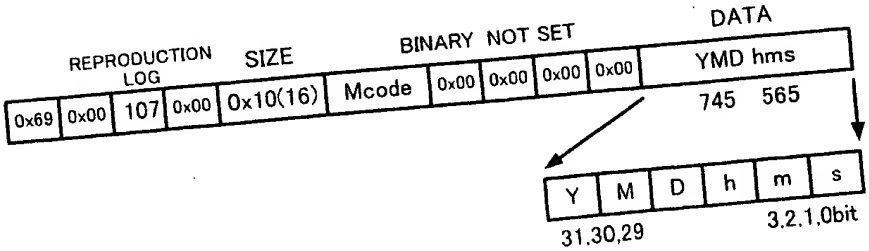
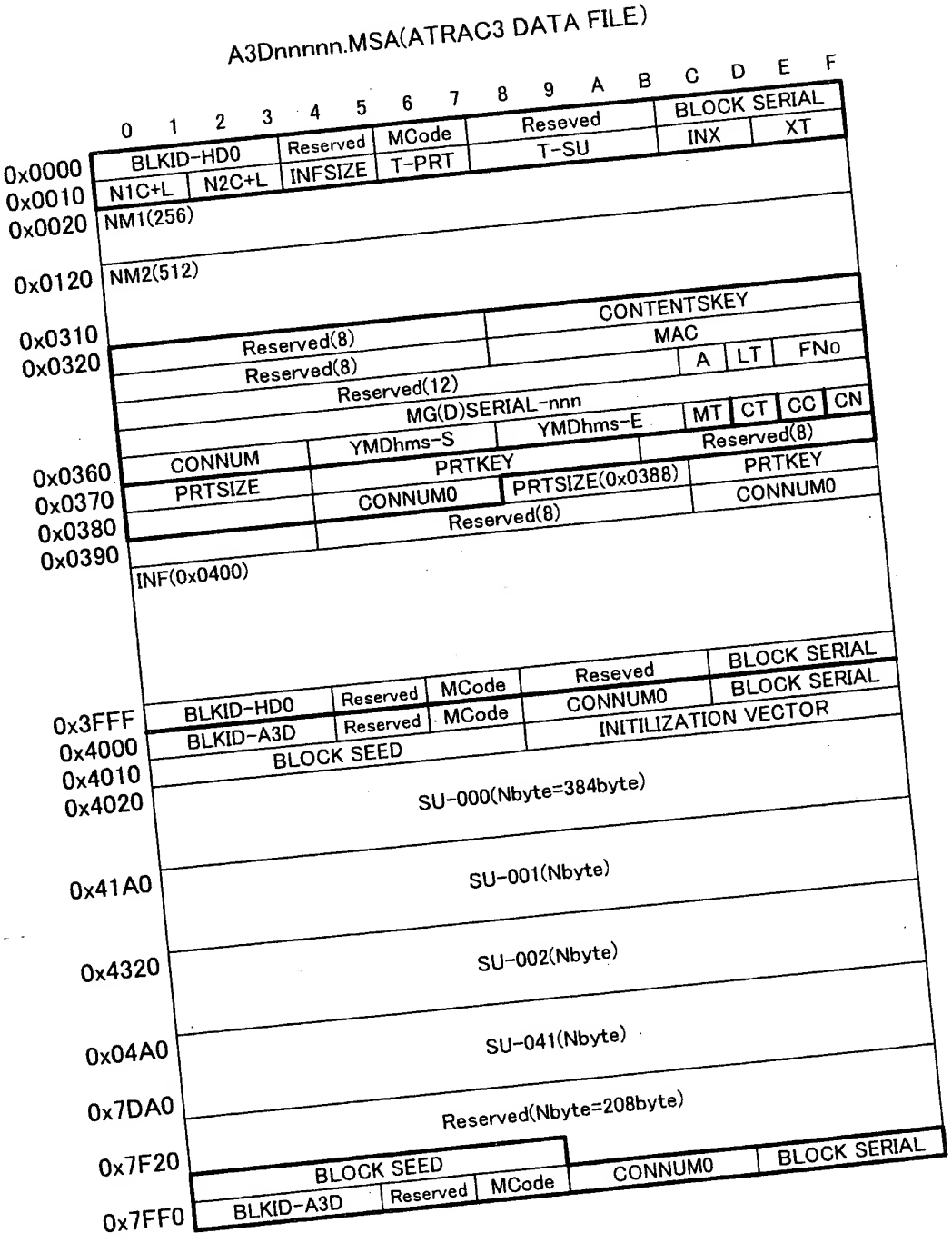


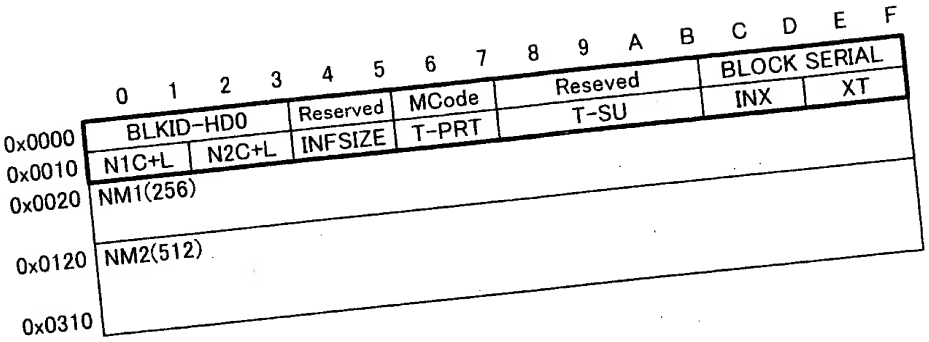

Fig. 16E



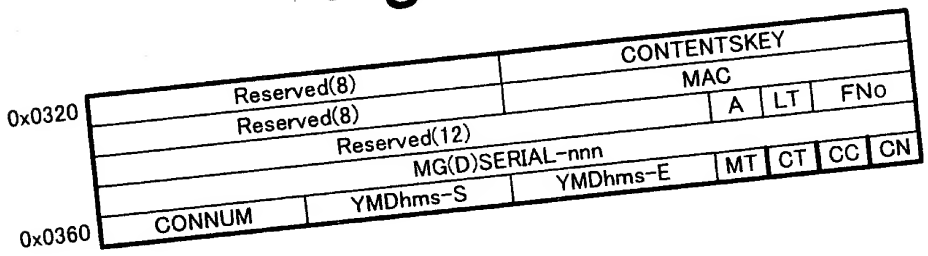
# Fig. 17


A3Dnnnnn.MSA(ATRAC3 DATA FILE)
0 1 2 3 4 5 6 7 8 9 A B C D E F
0x0000
0x0010
0x0020
0x0120
0x0310
0x0320
0x0360
0x0370
0x0380
0x0390
0x3FFF
0x4000
0x4010
0x4020
0x41A0
0x4320
0x04A0
0x7DA0
0x7F20
0x7FF0
BLKID-HD0
Reserved
MCode
Reseved
BLOCK SERIAL
N1C+L
N2C+L
INFSIZE
T-PRT
T-SU
INX
XT
NM1(256)
NM2(512)
Reserved(8)
CONTENTSKEY
MAC
Reserved(12)
A
LT
FNo
MG(D)SERIAL-nnn
MT
CT
CC
CN
CONNUM
YMDhms-S
YMDhms-E
PRTSIZE
PRTKEY
CONNUM0
PRTSIZE(0x0388)
INF(0x0400)
BLKID-A3D
CONNUM0
INITILIZATION VECTOR
BLOCK SEED
SU-000(Nbyte=384byte)
SU-001(Nbyte)
SU-002(Nbyte)
SU-041(Nbyte)
Reserved(Nbyte=208byte)

# Fig. 18




# Fig. 19




# Fig. 20

bit7:MODE OF ATRAC3 0:Dual 1:Joint

bit6,5,4 N OF 3 BITS:MODE VALUE

| N | MODE | TIME | TRANSMISSION RATE | SU | BYTES |
|---|---|---|---|---|---|
| 7 | HQ | 47min | 176kbps | 31SU | 512 |
| 6 | | 58min | 146kbps | 38SU | 424 |
| 5 | EX | 64min | 132kbps | 42SU | 384 |
| 4 | SP | 81min | 105kbps | 53SU | 304 |
| 3 | | 90min | 94kbps | 59SU | 272 |
| 2 | LP | 128min | 66kbps | 84SU | 192 |
| 1 | mono | 181min | 47kbps | 119SU | 136 |
| 0 | mono | 258min | 33kbps | 169SU | 96 |

bit3:Reserved

bit2:DATA TYPE 0:AUDIO 1:OTHER

bit1:REPRODUCTION SKIP 0:NORMAL REP 1:SKIP

bit0:EMPHASIS 0:OFF 1:ON(50/15 μS)

# Fig. 21

bit7 :COPY PERMISSION 0:COPY PROHIBITION 1:COPY PERMISSION

bit6 :GENERATION 0:ORIGINAL 1:FIRST OR LATER COPY GENERATION

HCMS bit5-4 :COPY CONTROL FOR HIGH SPEED DIGITAL COPY

00:COPY PROHIBITION 01:COPY FIRST GENERATION 10:COPY PERMISSION

COPY OPERATION OF CHILD OF FIRST COPY GENERATION IS PROHIBITED.

bit3-2 MagicGate AUTHENTICATION LEVEL

00:Level10(Non-MG) 01:Level1

10:Level2 11:Reserved

DIVIDE AND COMBINE ARE PROHIBITED IN OTHER THAN LEVEL 10.

bit1,0 Reserved

# Fig. 22

| | | | | |
|---|---|---|---|---|
| 0x0370 | PRTSIZE | PRTKEY | | Reserved(8) |
| 0x0380 | | CONNUM0 | PRTSIZE(0x0388) | PRTKEY |
| 0x0390 | | Reserved(8) | | CONNUM0 |

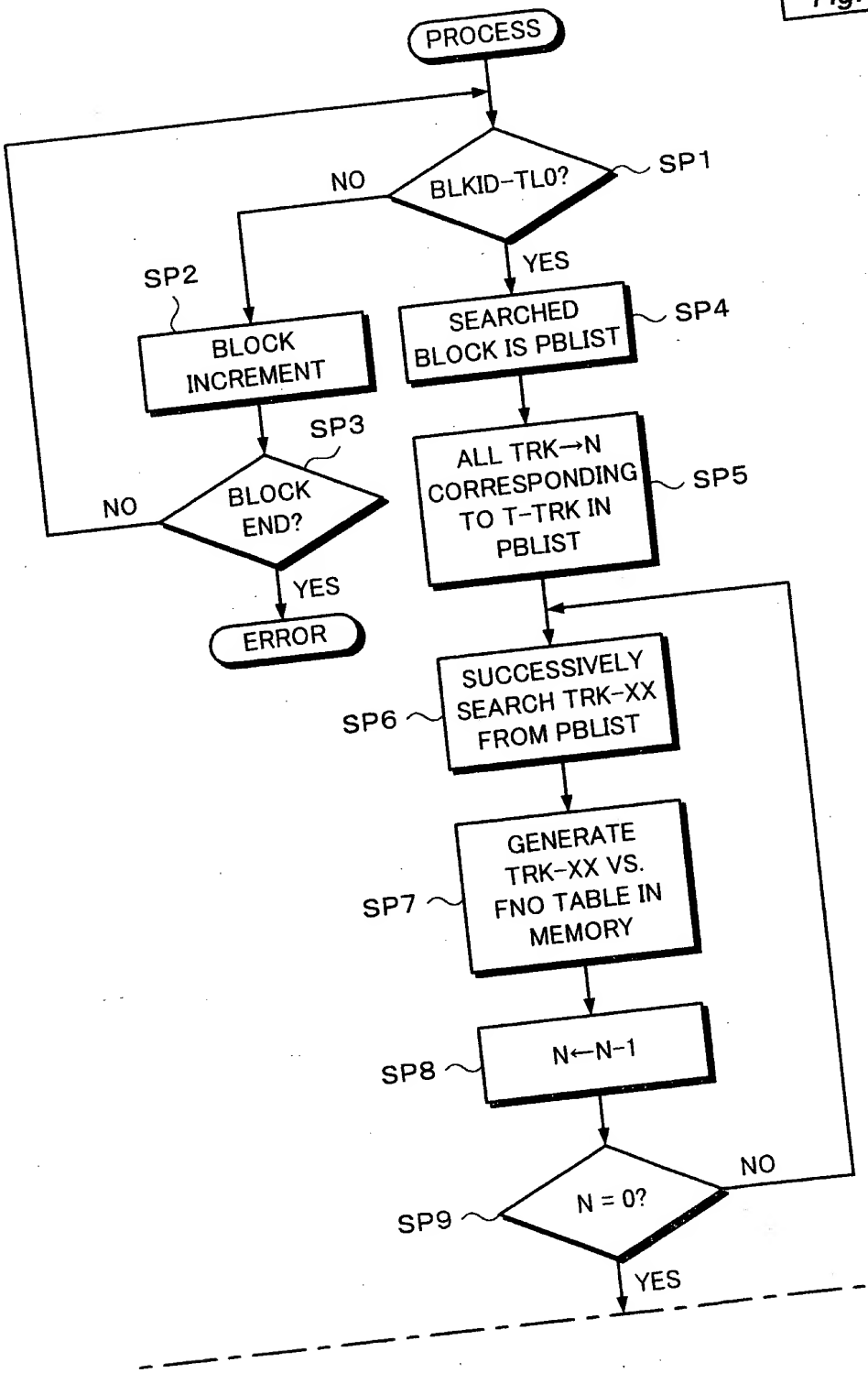
# Fig. 23

| | | | | | |
|---|---|---|---|---|---|
| 0x4000 | BLKID-A3D | Reserved | MCode | CONNUM0 | BLOCK SERIAL |
| 0x4010 | BLOCK SEED | | | INITILIZATION VECTOR | |
| 0x4020 | SU-000(Nbyte=384byte) | | | | |

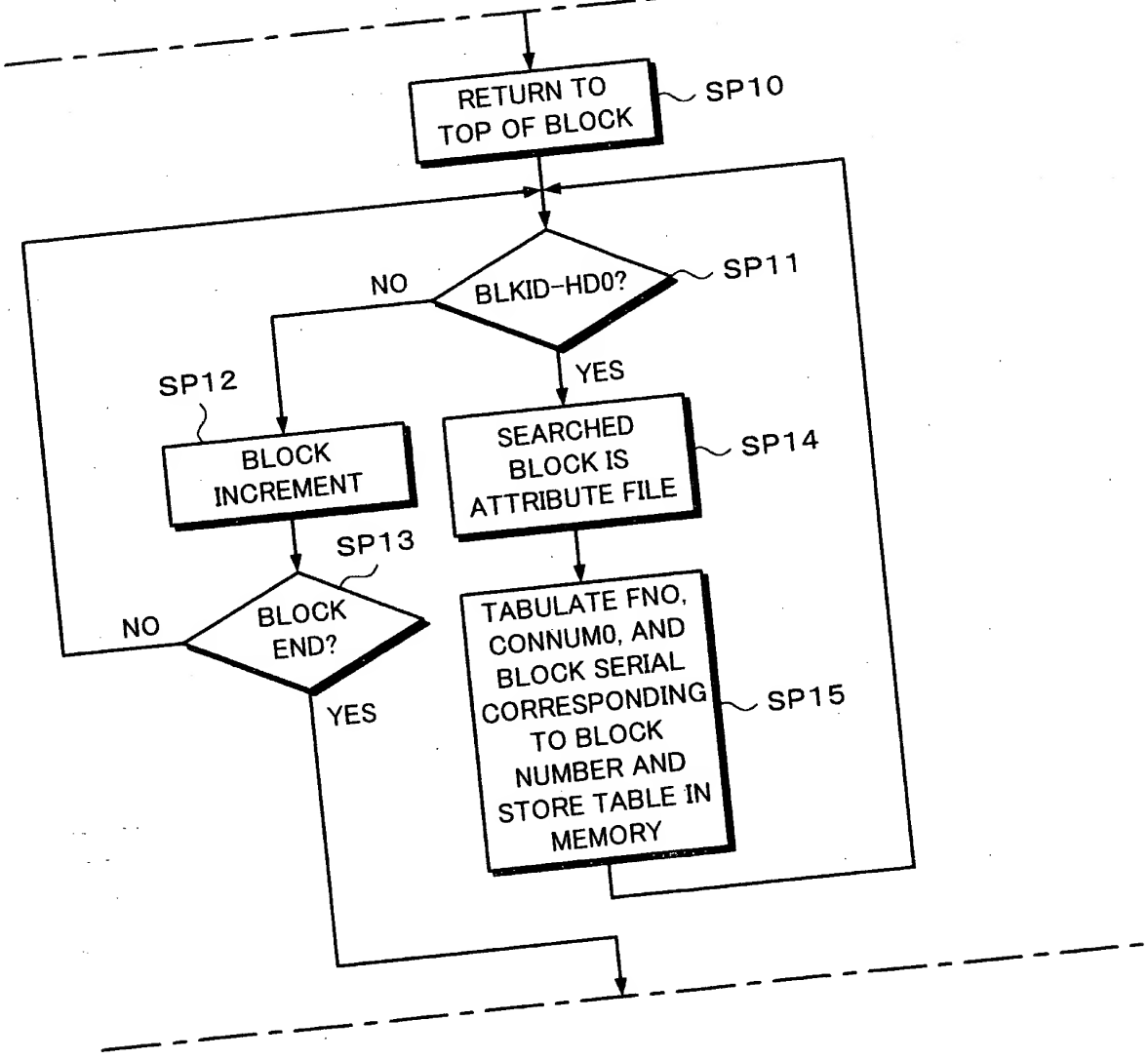
Fig. 24

| Fig. 24A |
| --- |
| Fig. 24B |
| Fig. 24C |

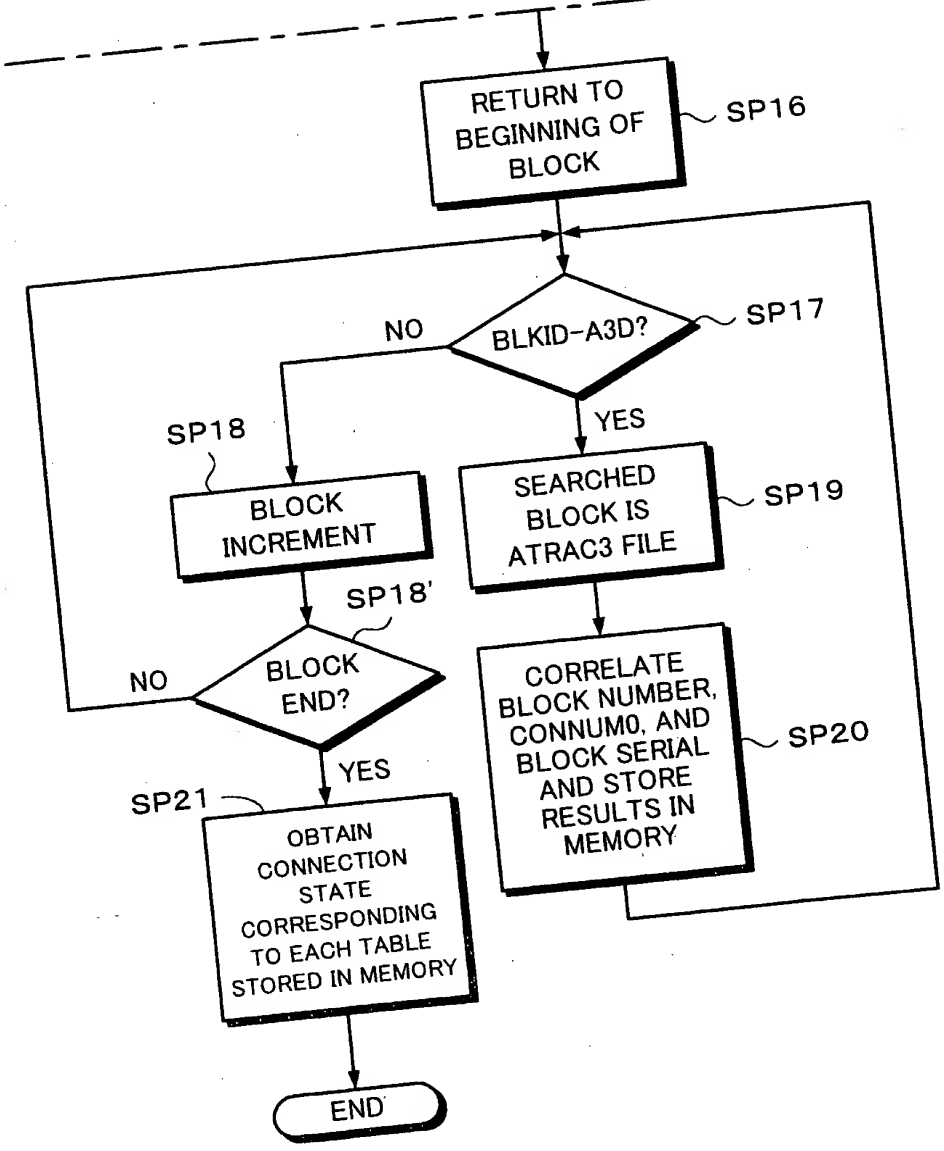
# Fig. 24A



# Fig. 24B


RETURN TO TOP OF BLOCK
SP10
BLKID-HD0?
SP11
NO
YES
SP12
BLOCK INCREMENT
SEARCHED BLOCK IS ATTRIBUTE FILE
SP14
SP13
BLOCK END?
NO
YES
TABULATE FNO, CONNUM0, AND BLOCK SERIAL CORRESPONDING TO BLOCK NUMBER AND STORE TABLE IN MEMORY
SP15

# Fig. 24C


RETURN TO BEGINNING OF BLOCK
SP16
BLKID-A3D?
SP17
NO
YES
SP18
BLOCK INCREMENT
SEARCHED BLOCK IS ATRAC3 FILE
SP19
SP18'
BLOCK END?
NO
YES
CORRELATE BLOCK NUMBER, CONNUM0, AND BLOCK SERIAL AND STORE RESULTS IN MEMORY
SP20
SP21
OBTAIN CONNECTION STATE CORRESPONDING TO EACH TABLE STORED IN MEMORY
END

# Fig. 25

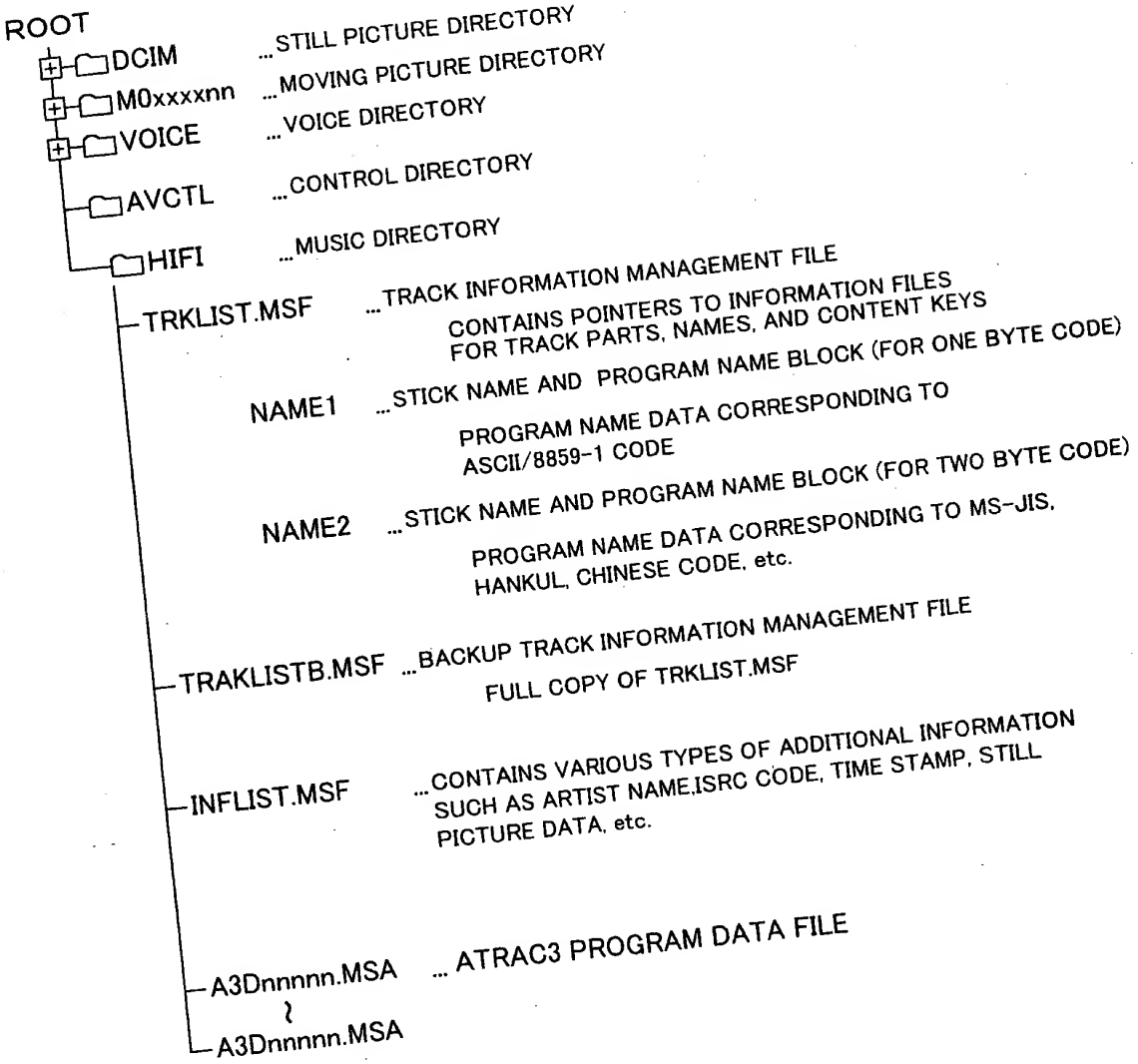
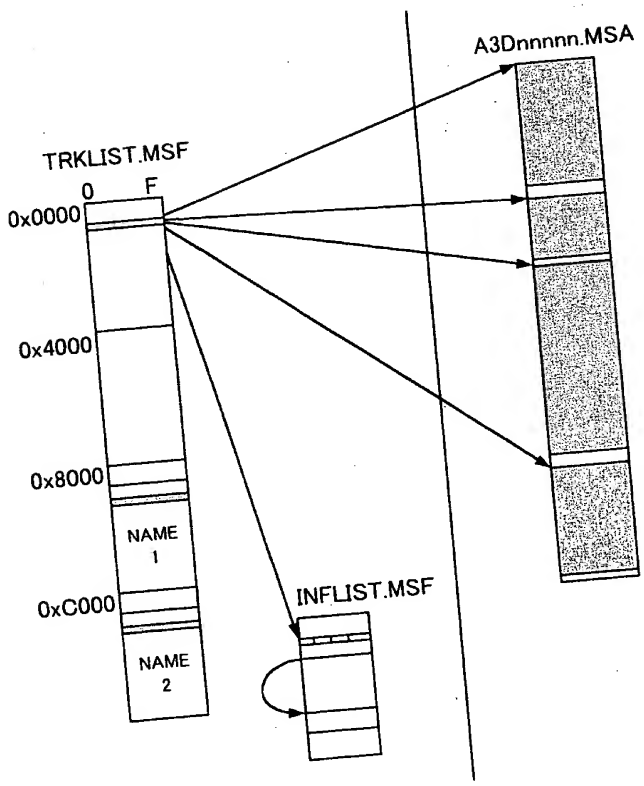
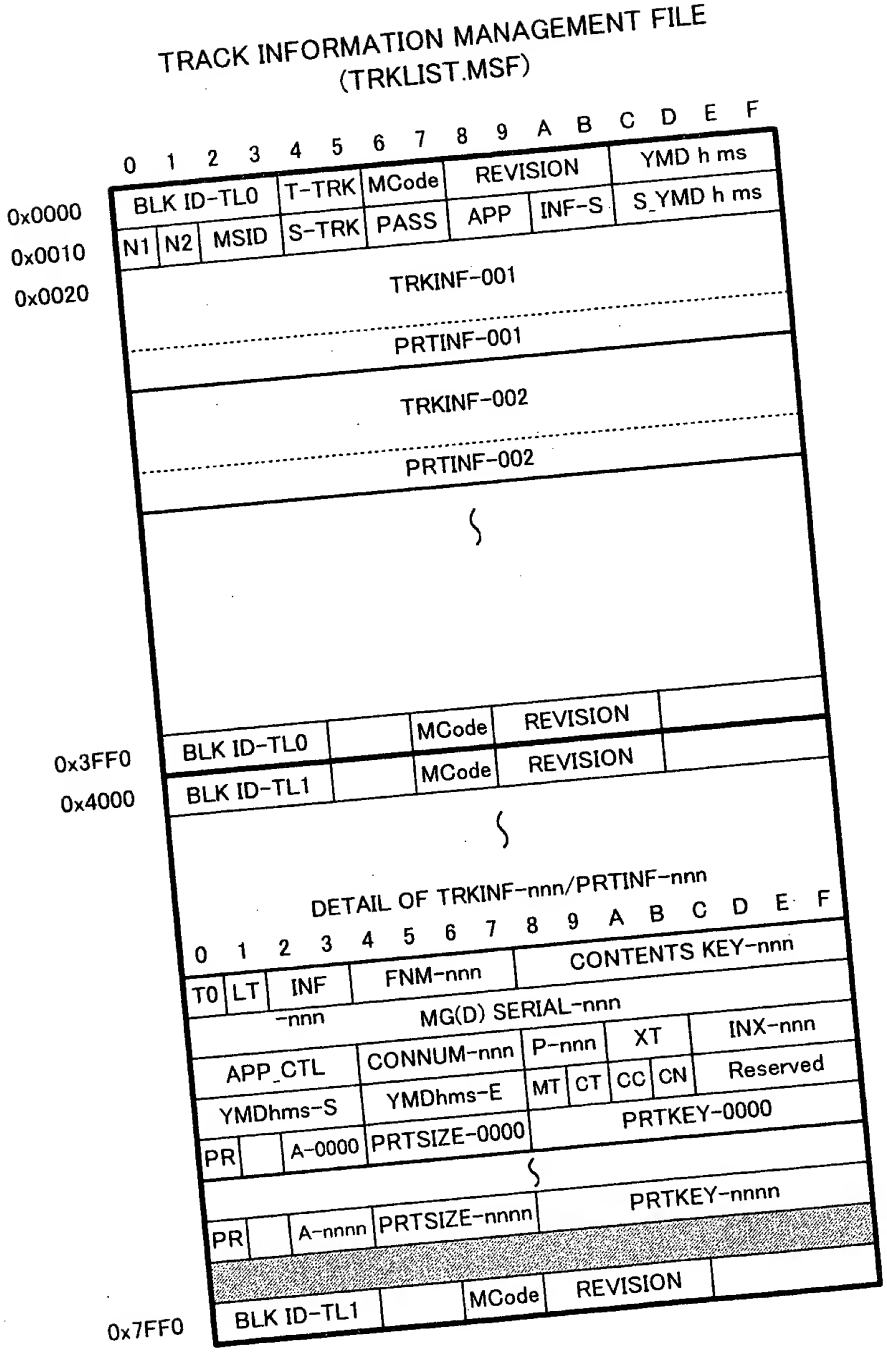

ROOT
DCIM ...STILL PICTURE DIRECTORY
M0xxxxnn ...MOVING PICTURE DIRECTORY
VOICE ...VOICE DIRECTORY
AVCTL ...CONTROL DIRECTORY
HIFI ...MUSIC DIRECTORY
TRKLIST.MSF ...TRACK INFORMATION MANAGEMENT FILE
CONTAINS POINTERS TO INFORMATION FILES FOR TRACK PARTS, NAMES, AND CONTENT KEYS
NAME1 ...STICK NAME AND PROGRAM NAME BLOCK (FOR ONE BYTE CODE)
PROGRAM NAME DATA CORRESPONDING TO ASCII/8859-1 CODE
NAME2 ...STICK NAME AND PROGRAM NAME BLOCK (FOR TWO BYTE CODE)
PROGRAM NAME DATA CORRESPONDING TO MS-JIS, HANKUL, CHINESE CODE, etc.
TRAKLISTB.MSF ...BACKUP TRACK INFORMATION MANAGEMENT FILE
FULL COPY OF TRKLIST.MSF
INFLIST.MSF ...CONTAINS VARIOUS TYPES OF ADDITIONAL INFORMATION SUCH AS ARTIST NAME,ISRC CODE, TIME STAMP, STILL PICTURE DATA, etc.
A3Dnnnnn.MSA ... ATRAC3 PROGRAM DATA FILE
A3Dnnnnn.MSA

Fig. 26

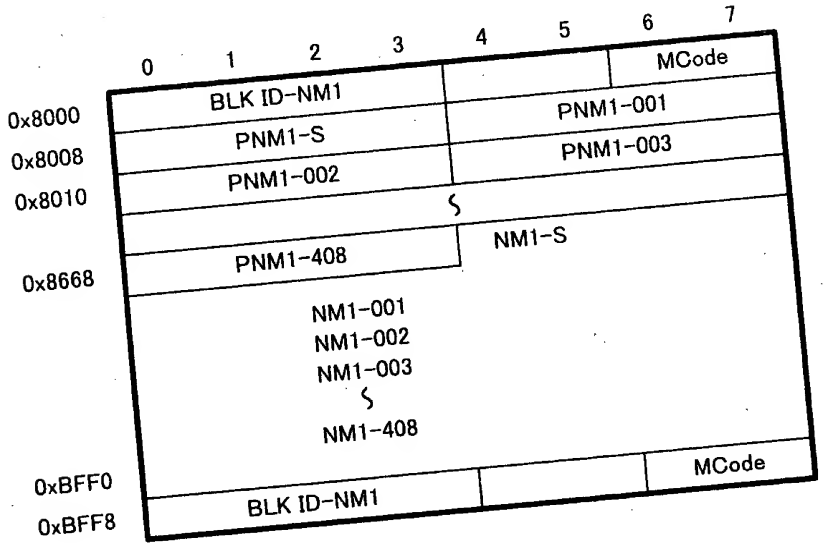

A3Dnnnnn.MSA
TRKLIST.MSF
0
F
0x0000
0x4000
0x8000
NAME
1
0xC000
NAME
2
INFLIST.MSF

# Fig. 27


TRACK INFORMATION MANAGEMENT FILE
(TRKLIST.MSF)
0 1 2 3 4 5 6 7 8 9 A B C D E F
0x0000
BLK ID-TL0
T-TRK
MCode
REVISION
YMD h ms
0x0010
N1
N2
MSID
S-TRK
PASS
APP
INF-S
S_YMD h ms
0x0020
TRKINF-001
PRTINF-001
TRKINF-002
PRTINF-002
0x3FF0
BLK ID-TL0
MCode
REVISION
0x4000
BLK ID-TL1
MCode
REVISION
DETAIL OF TRKINF-nnn/PRTINF-nnn
0 1 2 3 4 5 6 7 8 9 A B C D E F
T0
LT
INF
FNM-nnn
CONTENTS KEY-nnn
-nnn
MG(D) SERIAL-nnn
APP_CTL
CONNUM-nnn
P-nnn
XT
INX-nnn
YMDhms-S
YMDhms-E
MT
CT
CC
CN
Reserved
PR
A-0000
PRTSIZE-0000
PRTKEY-0000
PR
A-nnnn
PRTSIZE-nnnn
PRTKEY-nnnn
0x7FF0
BLK ID-TL1
MCode
REVISION

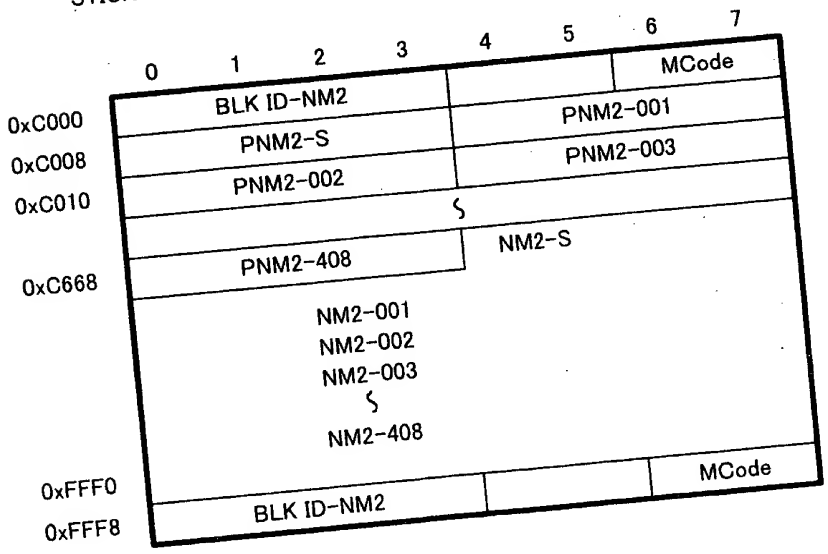
# Fig. 28

STICK NAME AND PROGRAM NAME BLOCK-FOR ONE BYTE CODE

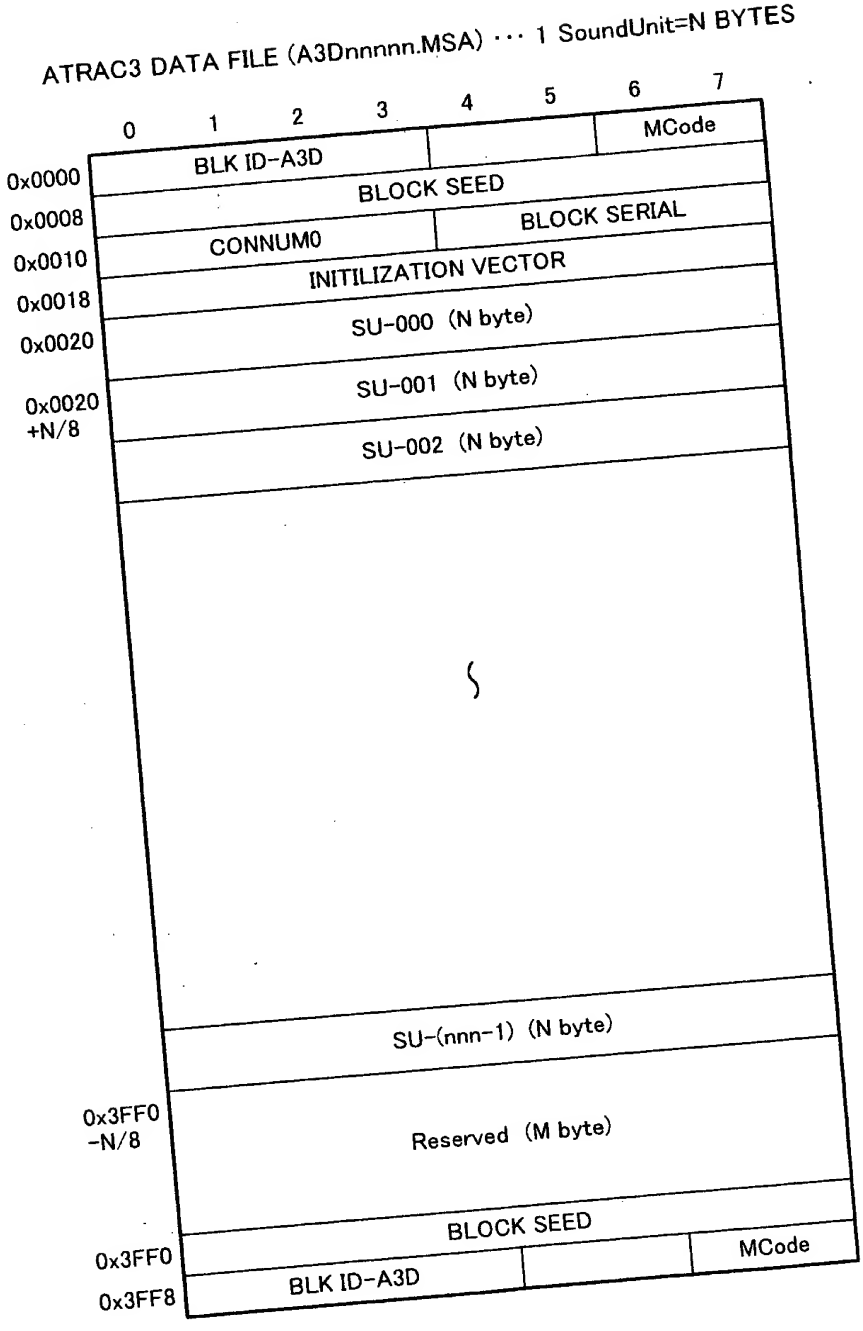



# Fig. 29

STICK NAME AND PROGRAM NAME BLOCK-FOR TWO-BYTE CODE



# Fig. 30


ATRAC3 DATA FILE (A3Dnnnnn.MSA) ··· 1 SoundUnit=N BYTES
0 1 2 3 4 5 6 7
0x0000
BLK ID-A3D
MCode
0x0008
BLOCK SEED
0x0010
CONNUM0
BLOCK SERIAL
0x0018
INITILIZATION VECTOR
0x0020
SU-000 (N byte)
0x0020 +N/8
SU-001 (N byte)
SU-002 (N byte)
SU-(nnn-1) (N byte)
0x3FF0 -N/8
Reserved (M byte)
BLOCK SEED
0x3FF0
BLK ID-A3D
MCode
0x3FF8

# Fig. 31

ADDITIONAL INFORMATION MANAGEMENT FILE (INFLIST.MSF)

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0x0000 | BLK ID-INF | | | T-DAT | | MCode | | YMDhms | | | INF-409 | | | | | |
| 0x0010 | INF-001 | | | INF-002 | | | | INF-003 | | | INF-004 | | | | | |
| 0x0020 | INF-005 | | | INF-006 | | | | INF-007 | | | INF-008 | | | | | |
| | ≀ | | | ≀ | | | | ≀ | | | ≀ | | | | | |
| 0x0660 | INF-405 | | | INF-406 | | | | INF-407 | | | INF-408 | | | | | |
| 0x07F0 | Reserved | | | | | | | | | | | | | | | |
| 0x0800 | DataSlot-0000 | | | | | | | | | | | | | | | |
| 0x0810 | DataSlot-0001 | | | | | | | | | | | | | | | |
| | ≀ | | | | | | | | | | | | | | | |
| 0x3FF0 | DataSlot-03 7F(895dec) | | | | | | | | | | | | | | | |
| 0x4000 | DataSlot-03 8 0 | | | | | | | | | | | | | | | |
| | ≀ | | | | | | | | | | | | | | | |
| | DataSlot-FFFF(MAXIMUM VALUE) | | | | | | | | | | | | | | | |

# Fig. 32

ADDITIONAL INFORMATION DATA STRUCTURE

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IN | ID | SID | 00 | SIZE | | MCode | | | | | | | | | |
| VARIABLE LENGTH DATA | | | | | | | | | | | | | | | |

Fig. 33

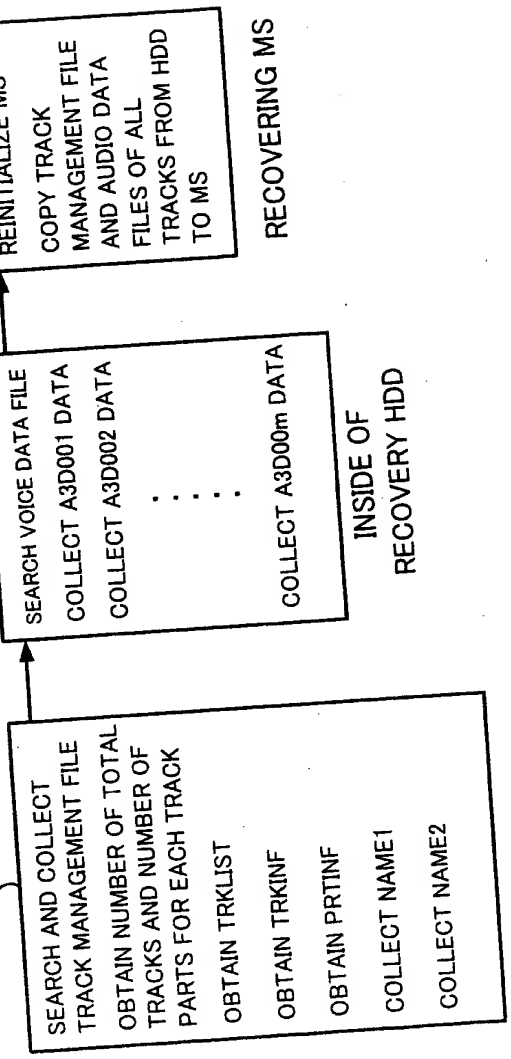

101
SEARCH AND COLLECT TRACK MANAGEMENT FILE
OBTAIN NUMBER OF TOTAL TRACKS AND NUMBER OF PARTS FOR EACH TRACK
OBTAIN TRKLIST
OBTAIN TRKINF
OBTAIN PRTINF
COLLECT NAME1
COLLECT NAME2
102
SEARCH VOICE DATA FILE
COLLECT A3D001 DATA
COLLECT A3D002 DATA
. . . . .
COLLECT A3D00m DATA
INSIDE OF RECOVERY HDD
103
REINITIALIZE MS
COPY TRACK MANAGEMENT FILE AND AUDIO DATA FILES OF ALL TRACKS FROM HDD TO MS
RECOVERING MS

Fig. 34

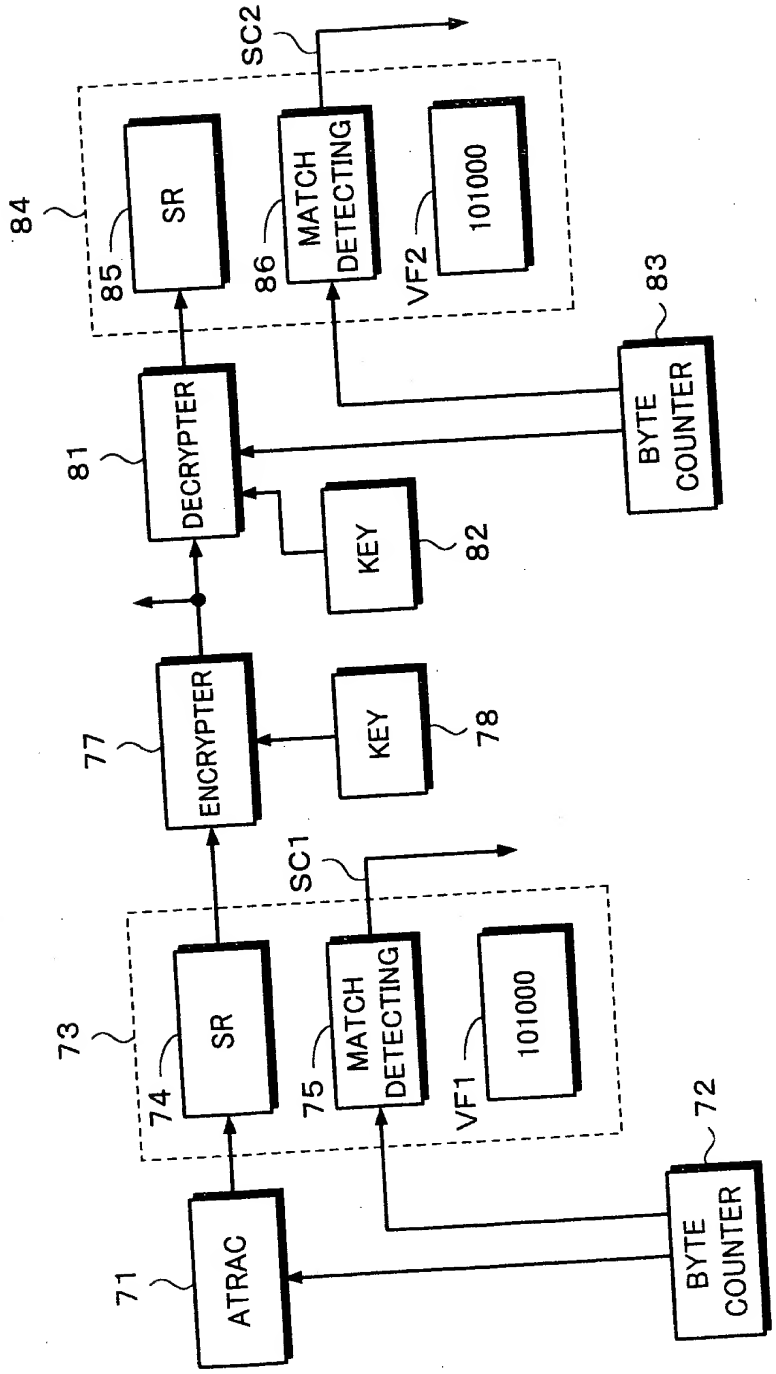

ATRAC
71
BYTE COUNTER
72
73
SR
74
MATCH DETECTING
75
101000
VF1
SC1
ENCRYPTER
77
KEY
78
DECRYPTER
81
KEY
82
BYTE COUNTER
83
84
SR
85
MATCH DETECTING
86
101000
VF2
SC2

Fig. 35

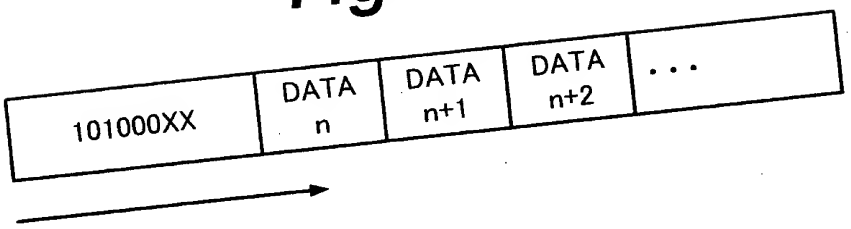
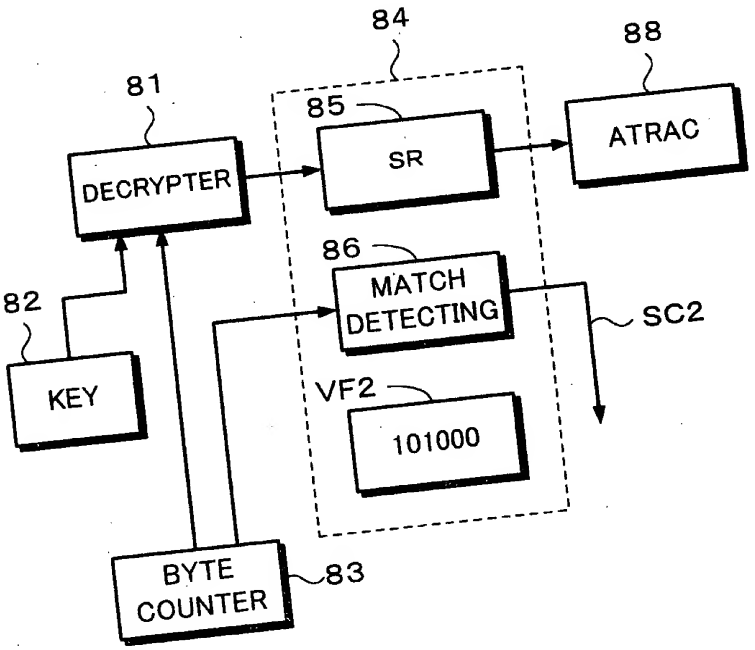
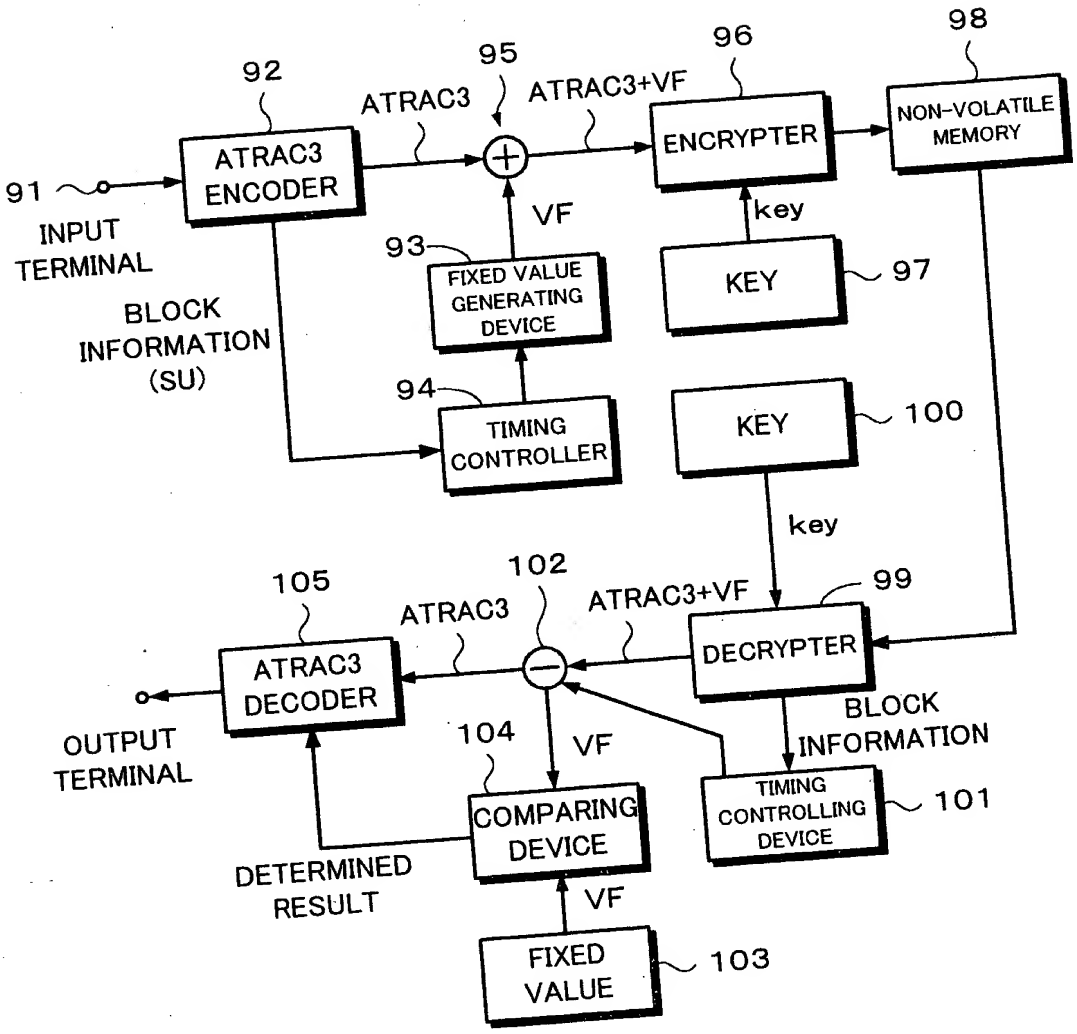

101000XX
DATA n
DATA n+1
DATA n+2
. . .

Fig. 36


84
88
81
85
DECRYPTER
SR
ATRAC
86
MATCH DETECTING
SC2
82
KEY
VF2
101000
BYTE COUNTER
83

# Fig. 37


92
95
96
98
ATRAC3
ATRAC3+VF
ATRAC3 ENCODER
ENCRYPTER
NON-VOLATILE MEMORY
91
INPUT TERMINAL
VF
key
93
FIXED VALUE GENERATING DEVICE
KEY
97
BLOCK INFORMATION (SU)
94
TIMING CONTROLLER
KEY
100
key
105
102
99
ATRAC3
ATRAC3+VF
ATRAC3 DECODER
DECRYPTER
OUTPUT TERMINAL
104
VF
BLOCK INFORMATION
COMPARING DEVICE
TIMING CONTROLLING DEVICE
101
DETERMINED RESULT
VF
FIXED VALUE
103

| | |
|---|---|
| 10 | AUDIO ENCODER/DECODER IC |
| 20 | SECURITY IC |
| 30 | DSP |
| 40 | MEMORY CARD |
| 42 | FLASH MEMORY |
| 52 | SECURITY BLOCK |

PBLIST REPRODUCTION MANAGEMENT FILE
TRKLIST TRACK INFORMATION MANAGEMENT FILE
INFLIST ADDITIONAL INFORMATION MANAGEMENT FILE
A3Dnnn AUDIO DATA FILE